

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

JOHN A. YATES
CHAIRMAN EMERITUS

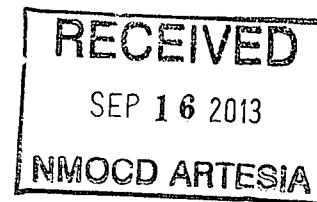
JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 11, 2013

Mr. Mike Bratcher
NMOCD District II
811 South First Street
Artesia, NM 88210



RE: Dolores AIL Federal #1 Tin Horn
30-015-26547
Section 14, T22S-R31E
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on April 21, 2013. The release was 20 barrels of produced water and 1 barrel of oil with no amount recovered.

Initial TPH/BTEX and Chloride delineation samples were taken and were sent to a NMOCD approved facility, analytical results are enclosed for your review.

Yates Petroleum Corporation proposes to do the following work:

1. Excavate nothing from the production pad. Section 1 of the pad had low levels of chlorides. Section 2 of the pad did show slightly elevated levels at 1', but this will be taken care of when the location is plugged and abandoned. At this time, Yates will scrape the production pad and back drag the surface.
2. Excavate nothing from Section 3. This is the area next to the lease road where the release flowed. The first 3' of the release area had decent chloride levels making this a good 3' cap for the elevated levels we sampled at 4'.
3. Excavate 4' vertically from Section 2. This is the area to the east of the buried flow line.
4. Use the first 3' from section 1 to backfill section 2. Remove the 4' (21,000 ppm) and dispose. Like materials will be brought in to complete backfill of both section 1 and 2.

Due to an Agave gas line being buried in the same trench as Yates' water line, Yates will have to backfill each section as we excavate. Agave will not let us leave an excavation around their line open for an extended period of time.

The impacted soils excavated will be disposed of at a NMOCD approved facility. After excavation and disposal, the excavation would be backfilled with clean, like materials. The site would then be

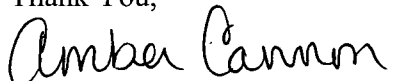
KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

added to our seeding list for 2014, as Yates Petroleum has already completed seeding for 2013. The area would then be monitored for re-vegetation.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at acannon@yatespetroleum.com.

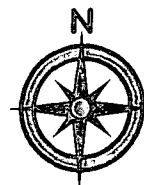
Thank You,

A handwritten signature in black ink that reads "Amber Cannon". The script is cursive and fluid, with the first name "Amber" and last name "Cannon" clearly distinguishable.

Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation

Enclosure(s): 3

cc: Jim Amos, BLM – Carlsbad District Office



X – D-1', D-2', D-3', D-4', D-5', D-6'

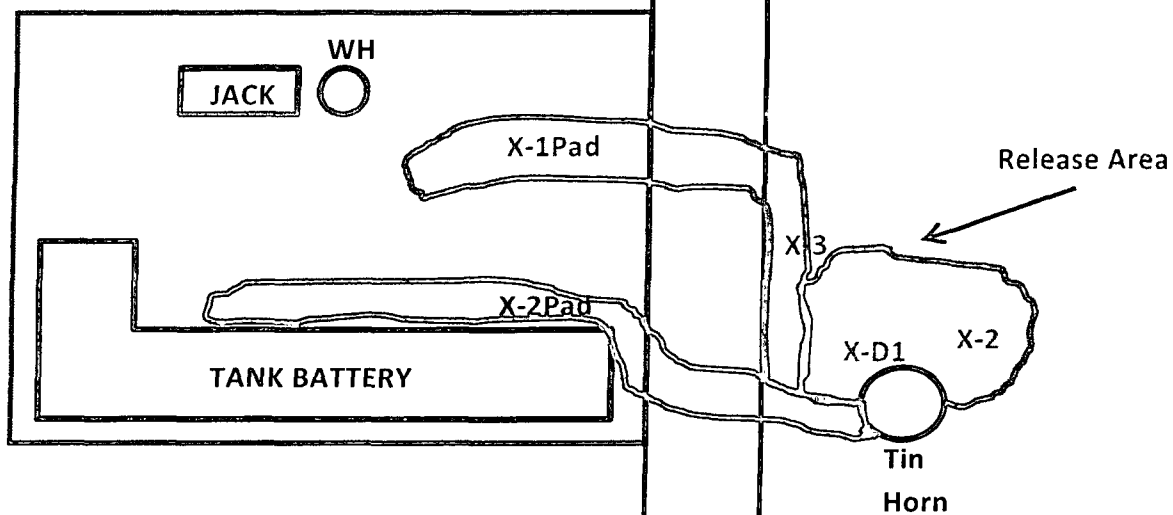
X – Dolores 2-1, 2-2, 2-3, 2-4, 2-5, 2-6

X – Dolores 3-1, 3-2, 3-3, 3-4

X – Dolores 1-1 Pad, Dolores 1-2 Pad

X – Dolores 2-1 Pad, Dolores 2-2 Pad

Dolores AIL Federal #1 Location



Dolores AIL Federal #1 Tin Horn

30-015-26547

Section 14, T22S-R31E

Eddy County, NM



Prepared by Amber Cannon
Environmental Regulatory Agent

DRAWING NOT TO SCALE

DOLORES AIL FEDERAL #1 (BATTERY) - Tin Horn

Cardinal Laboratories

Analytical Report- H301096	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
D-1'	Release Area	5/6/2013	GRAB	1'	ND	ND	14.4	14.4	144
D-2'	Release Area	5/6/2013	GRAB	2'	ND	ND	ND	ND	288
D-3'	Release Area	5/6/2013	GRAB	3'	ND	ND	ND	ND	368
D-4'	Release Area	5/6/2013	GRAB	4'	ND	ND	ND	ND	21,200
D-5'	Release Area	5/6/2013	GRAB	5'	ND	ND	ND	ND	6160
D-6'	Release Area	5/6/2013	GRAB	6'	ND	ND	ND	ND	1780

Analytical Report- H302033	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Dolores 2-1	Release Area	8/22/2013	GRAB	1'	3,200
Dolores 2-2	Release Area	8/22/2013	GRAB	2'	3,600
Dolores 2-3	Release Area	8/22/2013	GRAB	3'	2,080
Dolores 2-4	Release Area	8/22/2013	GRAB	4'	4,120
Dolores 2-5	Release Area	8/22/2013	GRAB	5'	720
Dolores 2-6	Release Area	8/22/2013	GRAB	6'	16
Dolores 3-1	Release Area	8/22/2013	GRAB	1'	704
Dolores 3-2	Release Area	8/22/2013	GRAB	2'	1,100
Dolores 3-3	Release Area	8/22/2013	GRAB	3'	1,600
Dolores 3-4	Release Area	8/22/2013	GRAB	4'	9,040
Dolores 1-1 Pad	Release Area	8/22/2013	GRAB	1'	784
Dolores 1-2 Pad	Release Area	8/22/2013	GRAB	2'	304
Dolores 2-1 Pad	Release Area	8/22/2013	GRAB	1'	2160
Dolores 2-2 Pad	Release Area	8/22/2013	GRAB	2'	800

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 448' NMOSE).

All results are ppm.Chlorides for documentation.

Released: 20 B/PW, 1 B/O; Recovered: 0 B/PW, 0 E/O. Release Date: 4/21/13



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 10, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DELORES AIL FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/08/13 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Yates Energy Petroleum Corp
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-1' (H301096-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: D-2' (H301096-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/10/2013	ND	416	104	400	3.77	

Sample ID: D-3' (H301096-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/10/2013	ND	416	104	400	3.77	

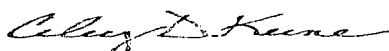
Sample ID: D-4' (H301096-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	05/10/2013	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Yates Energy Petroleum Corp
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-5' (H301096-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	05/10/2013	ND	416	104	400	3.77	

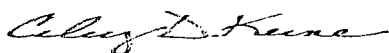
Sample ID: D-6' (H301096-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	05/10/2013	ND	416	104	400	3.77	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

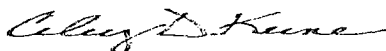
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 5 of 5

Project Manager: Amber Cannon

Project Name: Dolores AIL Federal Battery

Company Name: Yates Petroleum Corporation

Project #: 30-015-26547

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Lab use only)
ORDER #: H30D10916

ORDER #:		H561046																														
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers							Matrix										RUSH TAT (Pre-Schedule) 24, 48, 72	Standard TAT						
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles			BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	
1	D-1'	1'	1'	5/6/2013	12:00 PM		1	X								S	X															X
2	D-2'	2'	2'	5/6/2013	12:00 PM		1	X								S	X															X
3	D-3'	3'	3'	5/6/2013	12:00 PM		1	X								S	X															X
4	D-4'	4'	4'	5/6/2013	12:00 PM		1	X								S	X															X
5	D-5'	5'	5'	5/6/2013	12:00 PM		1	X								S	X															X
6	D-6'	6'	6'	5/6/2013	12:00 PM		1	X								S	X															X



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 10, 2013

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Yates Energy Petroleum Corp
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-1' (H301096-01)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTX	<0.300	0.300	05/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	14.4	10.0	05/09/2013	ND	205	102	200	0.533		

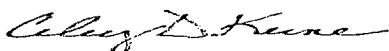
Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Yates Energy Petroleum Corp
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-2' (H301096-02)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05		
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36		
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83		
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61		
Total BTX	<0.300	0.300	05/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533		

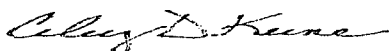
Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Yates Energy Petroleum Corp
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 05/08/2013
 Reported: 05/10/2013
 Project Name: DELORES AIL FEDERAL BATTERY
 Project Number: 30-015-26547
 Project Location: EDDY COUNTY

 Sampling Date: 05/06/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: D-3' (H301096-03)

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05		
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36		
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83		
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61		
Total BTEx	<0.300	0.300	05/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533		

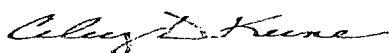
Surrogate: 1-Chlorooctane 90.8 % 63.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Yates Energy Petroleum Corp
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 05/08/2013
Reported: 05/10/2013
Project Name: DELORES AIL FEDERAL BATTERY
Project Number: 30-015-26547
Project Location: EDDY COUNTY

Sampling Date: 05/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: D-4' (H301096-04)

BTEX 80218		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918		
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533		


Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Yates Energy Petroleum Corp
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-5' (H301096-05)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	

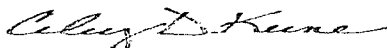
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	05/08/2013	Sampling Date:	05/06/2013
Reported:	05/10/2013	Sampling Type:	Soil
Project Name:	DELORES AIL FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: D-6' (H301096-06)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2013	ND	2.16	108	2.00	4.05	
Toluene*	<0.050	0.050	05/10/2013	ND	1.98	98.8	2.00	3.36	
Ethylbenzene*	<0.050	0.050	05/10/2013	ND	2.14	107	2.00	2.83	
Total Xylenes*	<0.150	0.150	05/10/2013	ND	6.19	103	6.00	2.61	
Total BTEX	<0.300	0.300	05/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2013	ND	210	105	200	0.918	
DRO >C10-C28	<10.0	10.0	05/09/2013	ND	205	102	200	0.533	

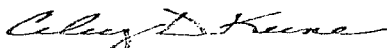
Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

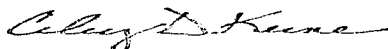
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

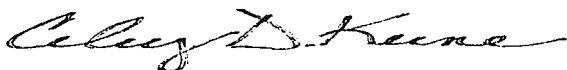
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: DOLORES AIL FEDERAL #1 (TIN HORN)
 Project Number: 30-015-26547
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/22/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: DOLORES 2-1 (H302033-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	08/28/2013	ND	416	104	400	3.92	

Sample ID: DOLORES 2-2 (H302033-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	08/28/2013	ND	416	104	400	3.92	

Sample ID: DOLORES 2-3 (H302033-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/28/2013	ND	416	104	400	3.92	

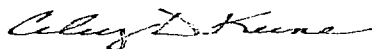
Sample ID: DOLORES 2-4 (H302033-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	08/28/2013	ND	416	104	400	3.92	

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #1 (TIN HORN)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26547	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: DOLORES 2-5 (H302033-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/28/2013	ND	416	104	400	3.92	

Sample ID: DOLORES 2-6 (H302033-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2013	ND	416	104	400	3.92	

Sample ID: DOLORES 3-1 (H302033-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2013	ND	416	104	400	3.92	

Sample ID: DOLORES 3-2 (H302033-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/28/2013	ND	416	104	400	3.92	


Sample ID: DOLORES 3-3 (H302033-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/29/2013	ND	448	112	400	3.64	

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* = Accredited Analyte

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Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: DOLORES AIL FEDERAL #1 (TIN HORN)
 Project Number: 30-015-26547
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/22/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: DOLORES 3-4 (H302033-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9040	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: DOLORES 1-1 PAD (H302033-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: DOLORES 1-2 PAD (H302033-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/29/2013	ND	448	112	400	3.64	

Sample ID: DOLORES 2-1 PAD (H302033-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/29/2013	ND	448	112	400	3.64	

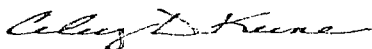
Sample ID: DOLORES 2-2 PAD (H302033-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/29/2013	ND	448	112	400	3.64	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

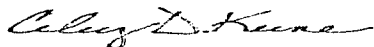
Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 6 of 6

Project Manager: Amber Cannon

Project Name: Dolores AIL Federal #1 (Tin Horn)

Company Name	Yates Petroleum Corporation
--------------	-----------------------------

Project #: 30-015-26547

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 103-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)																Analyze For:																			
ORDER #: H307033																TCLP: TOTAL:																			
						Preservation & # of Containers										Matrix																			
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water Sl=Sludge GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	801SE	TPH: 418.1	801SM	TX 1006	TPH: TX 1005	Callons (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Dolores 2-1	1'	1'	8/22/2013	2:00 PM		1									S																	X		X
2	Dolores 2-2	2'	2'	8/22/2013	2:02 PM		1									S																X		X	
3	Dolores 2-3	3'	3'	8/22/2013	2:04 PM		1									S															X		X		
4	Dolores 2-4	4'	4'	8/22/2013	2:06 PM		1									S															X		X		
5	Dolores 2-5	5'	5'	8/22/2013	2:08 PM		1									S															X		X		
6	Dolores 2-6	6'	6'	8/22/2013	2:10 PM		1									S															X		X		
7	Dolores 3-1	1'	1'	8/22/2013	2:12 PM		1									S															X		X		
8	Dolores 3-2	2'	2'	8/22/2013	2:14 PM		1									S															X		X		
9	Dolores 3-3	3'	3'	8/22/2013	2:16 PM		1									S															X		X		
10	Dolores 3-4	4'	4'	8/22/2013	2:18 PM		1									S															X		X		
11	Dolores 1-1 Pad	1'	1'	8/22/2013	2:20 PM		1									S															X		X		
12	Dolores 1-2 Pad	2'	2'	8/22/2013	2:22 PM		1									S															X		X		
13	Dolores 2-1 Pad	1'	1'	8/22/2013	2:24 PM		1									S															X		X		
14	Dolores 2-2 Pad	2'	2'	8/22/2013	2:26 PM		1									S															X		X		

Special Instructions:

Relinquished by: Amber Cannon Date: 8/23/13 Time: Received by: Gadi Henson Date: 8/23/13 Time: 12:45

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: ELOT Date: Time:

Laboratory Comments:

Sample Containers Intact? YES N

VOGs Free of Headspace? YES N

Labels on container(s)? YES N

Custody seals on container(s)? YES N

Custody seals on cooler(s)? YES N

Sample Hand Delivered by Sampler/Client Rep.? YES N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4°C 5°C